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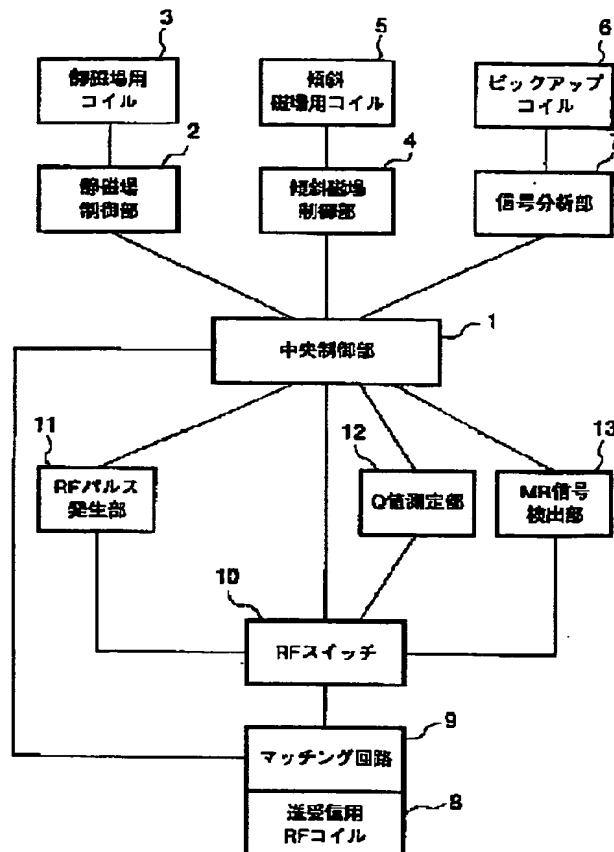
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TITLE : MAGNETIC RESONANCE IMAGING APPARATUS



ABSTRACT : PROBLEM TO BE SOLVED: To accurately calculate a specific absorption ratio(SAR) by providing a control data calculation means for controlling allowable excitation energy in taking images on the basis of the total amount of proton obtained based on detection of a magnetic resonance signal from an subject.

SOLUTION: A CPU 1 controls a coil for static magnetic field through a static magnetic field control part 2 to generate a uniform static magnetic field in an image-taking area, and generates an inclined magnetic field by controlling a coil 5 for inclined magnetic field for performing superposing onto the static magnetic field. An RF coil 8 for transmission and reception is placed in the vicinity of a portion of subject body to be measured which is on a top plate, and applies an RF pulse to the portion to detect an echo signal generated by exciting the corresponding atomic nucleus. A matching circuit 9 composed of variable capacitor is parallelly connected to the coil 8 to calculate SAR as data for controlling the allowable excitation energy in the image taking operation.

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